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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/964,367

09/26/2001

Jarmo Heinonen

874.0101.U1(US)

2260

7590

02/16/2006

HARRISNGTON & SMITH LLP
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FAIRFIELD, CT 06432

EXAMINER

RAMAKRISHNAIAH, MELUR

ART UNIT

PAPER NUMBER

2643

DATE MAILED: 02/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-6, 8-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA (Applicant's Admitted Prior Art) in view of Lee et al. (US 2001/0029172, filed 12-28-2000, hereinafter Lee).

Regarding claim 1, AAPA discloses an oscillator circuit for use in a local oscillator of an RF communication device that communicates over an RF channel comprising: an oscillator circuit coupled to power supply voltage (V_{cc}) through a buffer transistor and a biasing network having a bias voltage output coupled of the oscillator transistor and to control input of the buffer transistor, the bias network voltage network being coupled to V_{cc} (fig. 1 of Applicant's drawing).

AAPA differs from claims 1-3 in that it does not teach the following: circuitry for setting a magnitude of V_{cc} as a function of at least RF channel conditions or an operational mode of the RF communication device, RF channel conditions are determined by calculating a signal-to-noise ratio, magnitude of V_{cc} is set between about zero volts and some maximum value.

However, Lee discloses low noise amplifier for mobile communication terminal which teaches the following: circuitry (330, fig. 1) for setting a magnitude of V_{cc} (reads on bias circuit varying bias current) as a function of at least RF channel conditions or an

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operational mode of the RF communication device, RF channel conditions are determined by calculating a signal-to-noise ratio, magnitude of V_{cc} is set between about zero volts and some maximum value (fig. 1, paragraphs: 0013, 0024, 0026-0027).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify AAPA to provide for the following: circuitry for setting a magnitude of V_{cc} as a function of at least RF channel conditions or an operational mode of the RF communication device, RF channel conditions are determined by calculating a signal-to-noise ratio, magnitude of V_{cc} is set between about zero volts and some maximum value as this arrangement would facilitate to minimize the use of battery in mobile communication device as taught by Lee (paragraph: 0034), thus facilitating to increase battery life in mobile communication device.

AAPA differs from claims 4-6 in that it does not teach the following: operational mode is one of a TDMA mode or CDMA mode, operational mode is one of burst transmission mode and reception mode or substantially continuous transmission mode and reception mode, operational mode is one of a narrow bandwidth mode or wider bandwidth mode.

However, Lee teaches the following: operational mode is one of a TDMA mode or CDMA mode, operational mode is one of burst transmission mode and reception mode or substantially continuous transmission mode and reception mode, operational mode is one of a narrow bandwidth mode or wider bandwidth mode (paragraphs: 0021-0023).

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Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify AAPA to provide for the following: operational mode is one of a TDMA mode or CDMA mode, operational mode is one of burst transmission mode and reception mode or substantially continuous transmission mode and reception mode, operational mode is one of a narrow bandwidth mode or wider bandwidth mode as this arrangement would facilitate to provide mobile communications to the user as is well known in the art.

Claims 8-10 are rejected for the same reasons as set forth in the rejection of claims 1-3.

Claims 11-13 are rejected for the same reasons as set forth in the rejection of claims 4-6.

3. Claims 7 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 15-21 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melur Ramakrishnaiah whose telephone number is (571)272-8098. The examiner can normally be reached on 9 Hr schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curt Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Melur Ramakrishnaiah
Primary Examiner
Art Unit 2643

**INFORMATION DISCLOSURE
CITATION FORM FOR
PATENT APPLICATION
(FORM PTO-1449)
(Substitute)**

Docket No.: 874.0101.U1(US)

Serial No.: 09/964,367


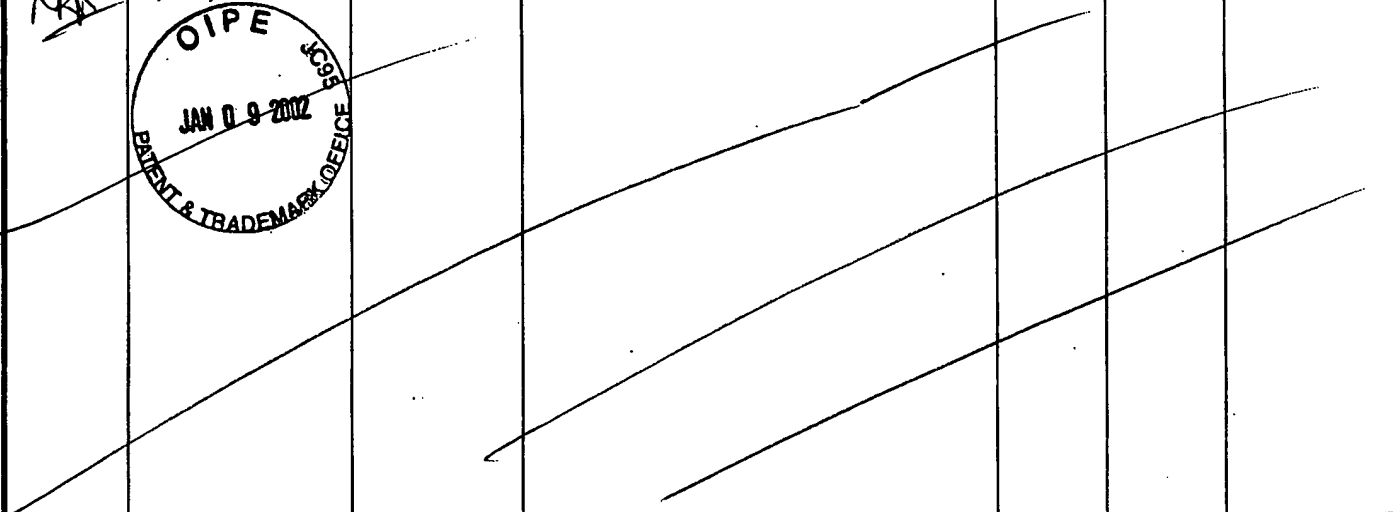
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Applicant(s): HEINONEN et al

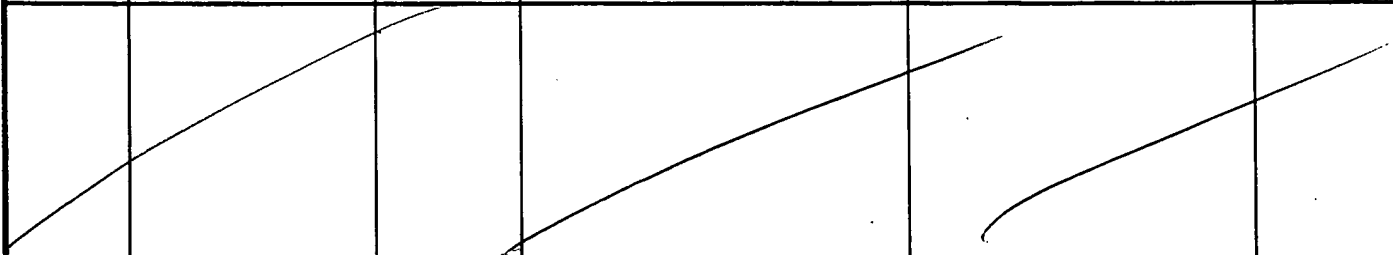
Filing Date: 9/26/2001

Group: 2817

U.S. PATENTS

Initials	Patent Number	Issue Date	Name	Class	Sub-class	Filing date
NRB NRB	5,926,071	7/20/99	KUKKONEN	H03B	5/06	1/7/98
	5,471,652	11/28/95	HULKKO	H04B	1/50	7/26/93
						
						

FOREIGN PATENT DOCUMENTS

Initials	Document Number	Date	Country	Name	Translation? Yes/No/n/a
					

OTHER DOCUMENTS (Title, Author, Date, Pages, Etc., if known)

Examiner's Signature: *Melur Ramakrishna*Date Considered: *2-9-06*

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INFORMATION DISCLOSURE CITATION FORM FOR PATENT APPLICATION (FORM PTO-1449) (Substitute)		Docket No.: 874.0101.U1(US) Applicant(s): HEINONEN et al Filing Date: 9/26/2001		Serial No.: 09/964,367 Group: 2817	
U.S. PATENT DOCUMENTS					
Examiner Initials	Document Number (Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant	Class	Sub-class
	US- US- US- US- US- US- US- US- US- US- US- US- US- US- US-				
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 2px solid black; border-radius: 50%; padding: 10px; text-align: center;"> OTPE SEP 17 2003 PATENT & TRADEMARK OFFICE </div> <div style="text-align: center;"> <h2 style="margin: 0;">RECEIVED</h2> <p style="margin: 5px 0;">SEP 22 2003</p> <p style="margin: 0;">Technology Center 2600</p> </div> </div>					
FOREIGN PATENT DOCUMENTS					
Examiner Initials	Document Number (Country Code-Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name Of Patentee or Applicant	Translation? Yes/No/n/a	
NRK NRK	EP-0854566-A1 WO-00/03490 - - - -	07-22-1998 01-20-2000	Nokia Mobile Phones Ltd. Hitachi, Ltd.	N/A No	
OTHER DOCUMENTS (Author (Capitalize), Title, Date, Pages, Etc., if known)					
Examiner's Signature: <i>Melur Ramakrishna</i>			Date Considered: <i>2-9-08</i>		
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Notice of References Cited	Application/Control No. 09/964,367		Applicant(s)/Patent Under Reexamination HEINONEN ET AL.	
	Examiner Melur Ramakrishnaiah		Art Unit 2643	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2001/0029172	10-2001	Lee et al.	455/234.1
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	W	
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Organization **TC 2600** Bldg./Room **KNOX**

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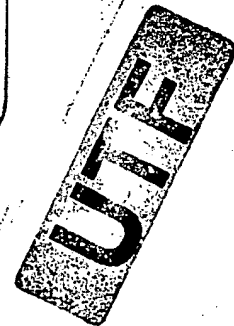
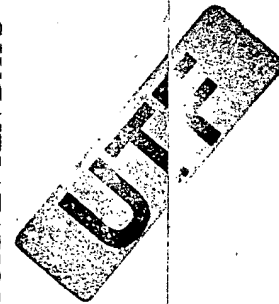
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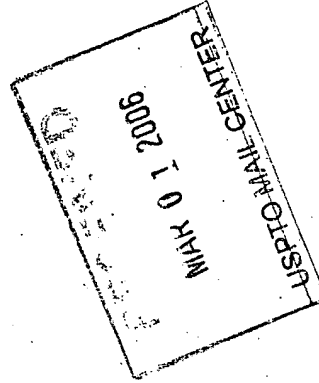


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